

**DECLARATION AND POWER OF ATTORNEY**  
(Attorney Docket No. 5918/04/FPS/MMCS/APC/DV)

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**FEEDBACK CONTROL OF A CHEMICAL MECHANICAL POLISHING DEVICE  
PROVIDING MANIPULATION OF REMOVAL RATE PROFILES**

the specification of which (check only one):

is attached hereto.

was filed as United States Patent Application  
Serial No. \_\_\_\_\_  
on \_\_\_\_\_  
and was amended  
on \_\_\_\_\_  
(if applicable)

was filed as PCT Patent Application  
Serial No. \_\_\_\_\_  
on \_\_\_\_\_  
and was amended under PCT Article 19  
on \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, Sections 1.56(a) and 1.56(b).

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS  
UNDER 35 U.S.C. §119(a)-(d) or 365(b):**

<b>COUNTRY (if PCT indicate PCT)</b>	<b>APPLICATION NUMBER</b>	<b>DATE OF FILING</b>	<b>PRIORITY CLAIMED UNDER 35 U.S.C. §119 (a)-(b) or 365(b) (YES/NO)</b>
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I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional patent application(s) listed below:

<b>APPLICATION NUMBER</b>	<b>DATE OF FILING</b>	<b>STATUS: (PENDING OR ABANDONED)</b>
60/298,878	June 19, 2001	Pending

I hereby claim the benefit under Title 35, United States Code, § 120 or 365(c) of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATION OR PCT INTERNATIONAL APPLICATION(S)  
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120 or 365(c):**

<b>APPLICATION NUMBER</b>	<b>DATE OF FILING (day, month, year)</b>	<b>STATUS: (PATENTED, PENDING OR ABANDONED)</b>
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**POWER OF ATTORNEY:** As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith

Scott M. Alter	32,879	Wayne A. Keown, Ph.D.	33,923
Hollie L. Baker	31,321	Ann-Louise Kerner, Ph.D.	33,523
Barbara A. Barakat	32,190	Janice M. Klunder, Ph.D.	41,121
Steven D. Barrett	40,903	James B. Lampert	24,564
Michael J. Bevilacqua	31,091	Keum J. Park	42,059
Nancy Chiu, Ph.D.	43,545	Jason A. Reyes	41,513
Michael A. Diener	37,122	Gretchen A. Rice, Ph.D.	37,429
Peter M. Dichiara	38,005	Donald R. Steinberg	37,241

Richard A. Goldenberg	38,895	Colleen Superko	39,850
Edward D. Grieff	38,898	Hall C. Swaim	22,838
Joseph F. Haag	42,612	Mary Rose Scozzafava	36,268
Sally Byrne	40,545	Rajesh Vallabh	35,761
Wayne M. Kennard	30,271	Henry N. Wixon	32,073
David J. Cerveny	44,600	Ayla A. Lari	43,739
Nels Lippert	25,888	Dominic Massa	44,905
Gregory S. Discher	42,488	Irah H. Donner	35,120
Robert McIssac	P46,918	Luke Yeh	43,296

the mailing address and telephone number of each of whom is HALE AND DORR LLP, 60 State Street, Boston, Massachusetts 02109 and (617) 526-6000, together with Donald Verplancken, Esq., Patent Counsel, Applied Materials, Inc., Legal Affairs Department, P.O. Box 450A, Santa Clara, California 95052 and (408) 986-7847 Reg. No.: 33,217 with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

**Send Correspondence To**

**Donald Verplancken, Esq.  
Patent Counsel  
Applied Materials, Inc.  
Legal Affairs Department  
P.O. Box 450A  
Santa Clara, California 95052**

**Direct Telephone Calls To**

**(408) 986-7847**

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of first and joint inventor:** Arulkumar P. Shanmugasundram

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Country of Citizenship: INDIA

Residence: Sunnyvale, California

Post Office Address: 428 Madeya Ave. #10, Sunnyvale, California 94806

**Full name of second and joint inventor:** Alexander T. Schwarm

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Country of Citizenship: USA

Residence: San Jose, California

Post Office Address:

**Full name of third and joint inventor:** Gopalakrishna B. Prabhu

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Country of Citizenship: INDIA

Residence: Sunnyvale, California

Post Office Address: 986 Henderson Ave. #2, Sunnyvale, California 94806

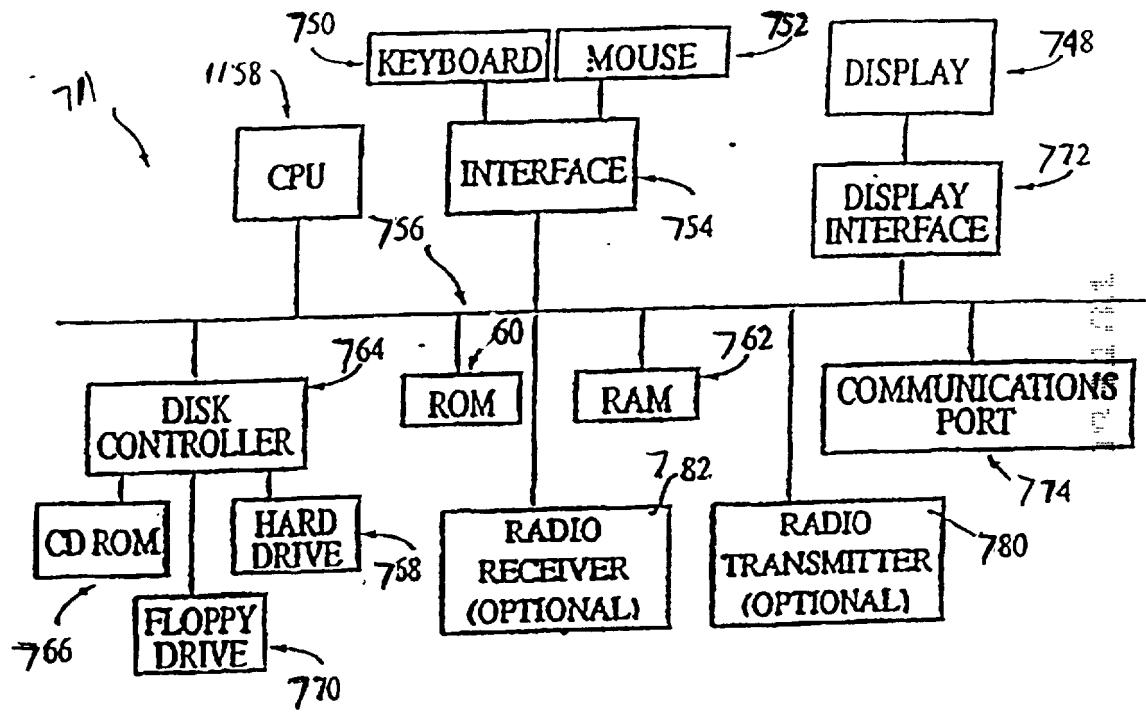


FIG. 7

SCANNED, # 12

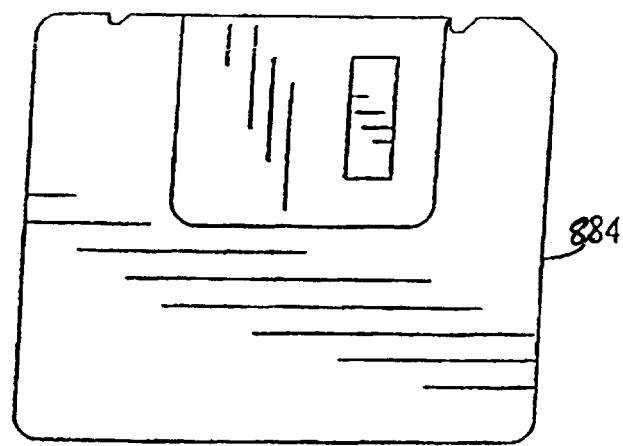


FIG. 8